

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph bridging pages 1 and 2 with the following amended paragraph:

However, since polyester composed of such a diol component has a ~~r-latively~~relatively large coefficient of friction and poor mechanical strength (that is, poor resistance to mechanical stress), obtained toner particles are liable to be fractured in a developing device, thus resulting in a case that problems such as poor electrification, contamination of the device, lowering in a fixing property, and the like occur.

Please replace the paragraph bridging pages 1 and 2 with the following amended paragraph:

In a main body 20 of the image forming apparatus 10, an image carrier 30 composed from a photoreceptor drum is arranged, and it is driven to be rotated in the direction indicated by the arrow by a drive means not shown. In the circumference of the image ~~carri-r~~carrier 30, along its rotating direction, there are disposed a charging device (charger) 40 for uniformly electrifying the image carrier (photoreceptor) 30, an exposure device 50 for forming an electrostatic latent image on the image carrier 30, a rotary developing device 60 for developing the electrostatic latent image, and an intermediate transfer device 70 for primary transfer of a monochromatic toner image formed on the image carrier 30.

Please replace the 2nd paragraph on page 65 with the following amended paragraph:

Such an external additive can be added by mixing with the powder for manufacturing a toner, using a ~~Henschel~~HENSCHEL mixer, for example.

Please replace the first full paragraph on page 102 with the following amended paragraph:

These components were mixed using a 20 liter type ~~Henschel~~ HENSCHEL mixer to obtain a material for manufacturing a toner.

Please replace the paragraph bridging pages 103 and 104 with the following amended paragraph:

Thereafter, 100 parts by weight of the toner particles which have been subjected to the thermal sphering treatment and 2.5 parts by weight of an external additive were mixed using a 20 liter type ~~Henschel~~ HENSCHEL mixer, to thereby obtain a toner. The used external additive was a mixture containing 1 part by weight of negatively-chargeable silica with relatively small grain size (average grain size: 12 nm), 0.5 part by weight of negatively-chargeable silica with relatively large grain size (average grain size: 40 nm), and 1 part by weight of rutile-anatase type titanium oxide (having a nearly fusiform shape and an average major axial diameter of 30 nm). In this connection, the used negatively-chargeable silica (negatively-chargeable silica with relatively small grain size and negatively-chargeable silica with relatively large grain size) was silica which has been subjected to a surface treatment (hydrophobic treatment) with hexamethyl disilazane. Further, the used rutile-anatase type titanium oxide was a mixture of rutile type titanium oxide and anatase type titanium oxide in a ratio of 90:10, which absorbs light in the wavelength region of 300 to 350 nm.

Please insert the following Tables 1 and 2 into the specification on page 109 after the fourth full paragraph:

TABLE 1

	Amorphous PES		Block PES		Other PES		Coloring agent	CCA	Wax		External additive			
	Kind	Content (pts.wt)	Kind	Content (pts.wt)	Kind	Content (pts.wt)			Kind	Content (pts.wt)	Rutile-anatase type titanium oxide	Silica with relatively small size	Silica with relatively large size	Positively-chargable silica
Example 1	PES-A	80	PES-B	20	-	-	6	1	KW	2	1	1	0.5	-
Example 2	PES-A	95	PES-B	5	-	-	6	1	KW	2	1	1	0.5	-
Example 3	PES-A	55	PES-B	45	-	-	6	1	KW	2	1	1	0.5	-
Example 4	PES-A	80	PES-C	20	-	-	6	1	KW	2	1	1	0.5	-
Example 5	PES-A'	30	PES-B	70	-	-	6	1	KW	2	1	1	0.5	-
Example 6	PES-A	80	PES-B	20	-	-	6	1	KW	1	1	1	0.5	-
Example 7	PES-A	80	PES-B	20	-	-	6	1	KW	3	1	1	0.5	-
Example 8	PES-A	80	PES-B	20	-	-	6	1	PE	3	1	1	0.5	-
Example 9	PES-A	80	PES-B	20	-	-	6	1	KW	2	-	1	0.5	-
Example 10	PES-A	80	PES-B	20	-	-	6	1	KW	2	1	1	0.5	1
Example 11	PES-A''	85	PES-B'	15	-	-	6	1	KW	2	1	1	0.5	-
Example 12	PES-A''	90	PES-B'	10	-	-	6	1	KW	2	1	1	0.5	-
Example 13	PES-A''	85	PES-B'	15	-	-	6	1	KW	1	1	1	0.5	-
Example 14	PES-A''	85	PES-B'	15	-	-	6	1	KW	3	1	1	0.5	-
Example 15	PES-A''	85	PES-B'	15	-	-	6	1	PE	3	1	1	0.5	-
Example 16	PES-A''	85	PES-B'	15	-	-	6	1	KW	2	-	1	0.5	-
Example 17	PES-A''	85	PES-B'	15	-	-	6	1	KW	2	1	1	0.5	1
Com. Ex. 1	PES-A'	80	PES-C	20	-	-	6	1	KW	2	1	1	0.5	-
Com. Ex. 2	PES-A'	80	PES-B	20	-	-	6	1	KW	4	1	1	0.5	-
Com. Ex. 3	PES-A'	80	PES-B	20	-	-	6	1	PE	3	1	1	0.5	-
Com. Ex. 4	PES-A	100	-	-	-	-	6	1	KW	2	1	1	0.5	-
Com. Ex. 5	-	-	PES-B	100	-	-	6	1	KW	2	1	1	0.5	-
Com. Ex. 6	PES-A'	100	-	-	-	-	6	1	KW	2	1	1	0.5	-
Com. Ex. 7	PES-A	80	-	-	PES-D	20	6	1	KW	2	1	1	0.5	-

Table 2

	Acid value of toner (KOHmg/g)	Average particle size of toner (μm)	Average roundness R of toner	Average length of crystals (nm)	Coating ratio with external additive(%)	Ratio of free rutile-anatase type titanium oxide (wt%)	G(0.01)/G(Δt)
Example 1	0.8	7.5	0.96	500	160	1.2	2.8
Example 2	0.8	7.5	0.97	300	160	1.5	6.5
Example 3	0.8	7.5	0.96	600	160	1.2	2.6
Example 4	3.2	7.5	0.96	500	160	1.3	5.2
Example 5	4.8	7.5	0.95	700	160	2.3	2.3
Example 6	0.8	7.5	0.96	500	160	1.5	2.4
Example 7	0.8	7.5	0.96	500	160	1.0	3.3
Example 8	1.5	7.5	0.96	500	160	1.5	3.0
Example 9	0.7	7.5	0.96	500	110	0.0	2.8
Example 10	0.7	7.5	0.96	500	190	1.1	2.8
Example 11	6.0	7.5	0.96	600	160	1.1	3.2
Example 12	6.3	7.5	0.97	500	160	1.0	3.9
Example 13	5.5	7.5	0.96	600	160	1.3	2.8
Example 14	6.5	7.5	0.96	600	160	0.9	3.7
Example 15	6.8	7.5	0.96	600	160	1.4	3.4
Example 16	5.7	7.5	0.96	600	110	0.0	3.3
Example 17	5.7	7.5	0.96	600	190	1.0	3.3
Com. Ex. 1	14.0	7.5	0.96	500	160	1.8	5.2
Com. Ex. 2	13.0	7.5	0.96	500	160	1.9	3.2
Com. Ex. 3	15.0	7.5	0.96	500	160	2.1	3.3
Com. Ex. 4	0.8	7.5	0.98	0	160	2.2	9.5
Com. Ex. 5	0.7	7.5	0.95	1000	160	1.5	9.5
Com. Ex. 6	14.0	7.5	0.98	0	160	2.1	9.4
Com. Ex. 7	0.8	7.5	0.95	3000	160	2.0	7.8

Table 3

	Temperature range in which good fixation is ensured		Durability in development	Storage stability	Charging properties					Transfer efficiency (%)	Transparency
	(°C)				Initial charge amount (µC/g)	Charge amount of toner after 1K	Charge amount under high humidity conditions (at 30°C and at 85% humidity) (µC/g)	Charge of toner charged with opposite polarity	Abundance ratio of toner charged with opposite polarity (wt%)		
Example 1	130-190	A	A	A	-12	A	-12	A	1.5	98	A
Example 2	120-170	B	B	A	-11	A	-11	A	1.6	98	A
Example 3	150-210	A	A	A	-12	A	-12	A	1.3	98	A
Example 4	120-180	A	B	A	-18	B	-16	A	1.6	98	A
Example 5	170-220	B	A	A	-23	B	-18	A	1.5	98	A
Example 6	140-180	B	A	A	-13	A	-13	A	1.6	98	A
Example 7	120-190	A	B	A	-11	B	-11	A	1.5	98	A
Example 8	130-190	A	B	A	-14	B	-13	A	1.3	98	A
Example 9	120-190	A	B	A	-15	B	-20	A	2.5	97	A
Example 10	140-200	A	A	A	-15	A	-15	A	1.1	99	A
Example 11	120-210	A	A	A	-15	A	-15	A	1.6	98	A
Example 12	120-200	A	B	A	-14	A	-14	A	1.6	98	A
Example 13	130-200	A	A	A	-13	A	-13	A	1.8	98	A
Example 14	120-210	A	B	A	-15	B	-15	A	1.8	98	A
Example 15	120-210	A	B	A	-13	B	-13	A	2.0	98	A
Example 16	120-210	A	B	A	-18	B	-23	A	2.7	97	A
Example 17	130-220	A	A	A	-18	A	-18	A	1.7	99	A
Com. Ex. 1	120-180	A	B	A	-28	B	-9	A	1.8	97	A
Com. Ex. 2	120-180	A	B	A	-26	B	-8	A	2.3	97	A
Com. Ex. 3	120-180	A	B	A	-27	B	-7	A	2.8	97	A
Com. Ex. 4	120-150	C	C	C	-11	D	-10	B	5.2	97	A
Com. Ex. 5	140-160	C	B	A	-15	B	-14	A	2.8	98	B
Com. Ex. 6	120-140	C	C	C	-18	D	-8	B	5.6	97	A
Com. Ex. 7	140-170	C	C	B	-11	D	-10	B	3.5	97	B

AMENDMENT UNDER 37 C.F.R. § 1.111
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Please delete the Appendix.